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ATGGTGAATCGGTCGGTTGCGTTCTCCGCGTTCGTTCTGATCCTTTTCGTGCT 口 > ഗ Œ æ S S M V N R

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TCAGGTTATCAAATCTTTAGTTTCATTTTAATATATGATAGTATTTTATATATTTTTATGG 61

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D I A S V S G E

TTTTATGTGTTCTGACAAGTTGCAAATATTGAGTAGATATCGCATCCGTTAGTGGAGAAC 121

TATGCGAGAAAGCTAGCAAGACATGGTCGGGAAACTGTGGCAATACGGGACATTGTGACA ပ 王 ტ C G N T Z U വ 3 H S X Ø 围 不 ပ 181

ACCAATGTAAATCATGGGAGGGTGCGGCCCATGGAGCGTGTCATGTGCGTAACGGGAAAC Ċ Z A H G A C H V R Ncol G B 田 S N C K 241

AGATGTGTTTCTGTTACTTCAATTGTAAAAAGCCGAAAAGCTTGCTCAAGACAAACTTA Д O E K L A HindIII Ø × × ပ z [14 × ر ا Ŀ ပ Σ 301

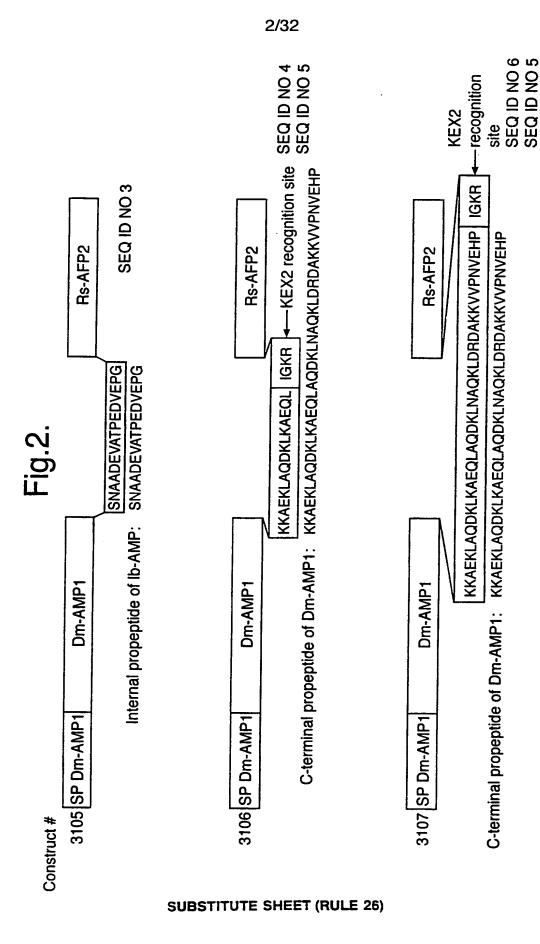
AAGCCGAACAACTCGCTCAAGACAAACTTAATGCCCCAAAAGCTTGACCGTGATGCCAAGA ď Ω æ Q K L D HindIII Ø z ᆸ ĸ Д Ø Ø 臼 K 361

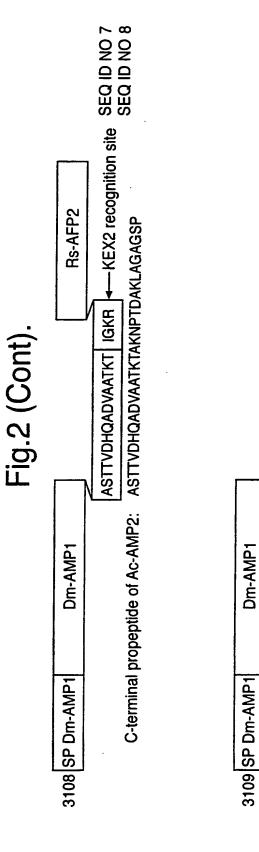
K V V P N V E H P 421 AAGTGGTTCCAAACGTTGAACATCCG

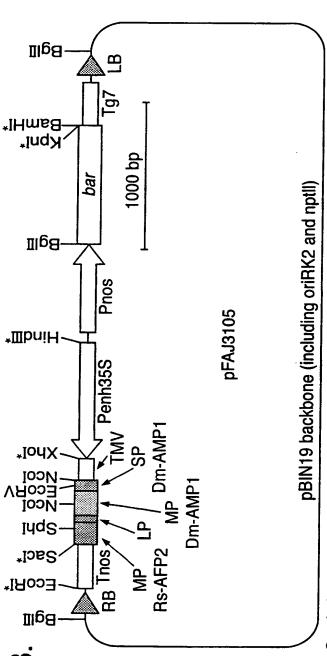
SEQ ID NO 2 SEQ ID NO 1

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Symbols

RB: right border of T-DNA

Inos: terminator of T-DNA nopaline synthase gene

MP Rs-AFP2: mature protein domain of Rs-AFP2

-P: Ib-AMP internal propeptide

MP Dm-AMP1: mature protein domain of Dm-AMP1 cDNA

SP Dm-AMP1: signal peptide domain of Dm-AMP1 cDNA

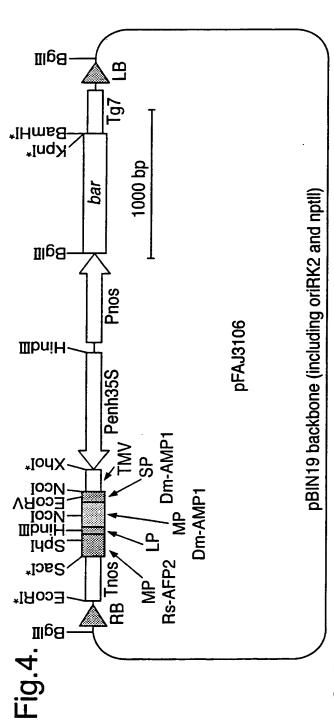
TMV: tobacco mosaic virus 5' leader sequence

Penh35S: promotor of 35S RNA of cauliflower mosaic virus with duplicated enhancer region

Pnos: promotor of T-DNA nopaline synthase gene

bar: basta resistance encoding gene Tg7: terminator of T-DNA gene 7

B: left border of T-DNA



Symbols

RB: right border of T-DNA

Tnos: terminator of T-DNA nopaline synthase gene

MP Rs-AFP2: mature protein domain of Rs-AFP2

-P: first 16 AA of Dm-AMP1 C-terminal propeptide and subtilisin-like protease recognition site IGKR

MP Dm-AMP1: mature protein domain of Dm-AMP1 cDNA

SP Dm-AMP1: signal peptide domain of Dm-AMP1 cDNA TMV: tobacco mosaic virus 5' leader sequence

Penh35S: promotor of 35S RNA of cauliflower mosaic virus with duplicated enhancer region

Pnos: promotor of T-DNA nopaline synthase gene

bar: basta resistance encoding gene Tg7: terminator of T-DNA gene 7

.B: left border of T-DNA

DOYGUCYC CCL+CL

Ilig8 Kbnl* BamHl* 1000 bp bar pBIN19 backbone (including oriRK2 and nptll) BgIII Pnos pFAJ3107 **MbniH** TMV Penh35S , Dm-AMP1 *IodX HindIII Ncol EcoRV Dm-AMP1 Idqe RB Inos, Rs-AFP2 Sacl* EcoRI* Fig.5. Symbols

RB: right border of T-DNA

Tnos: terminator of T-DNA nopaline synthase gene

MP Rs-AFP2: mature protein domain of Rs-AFP2

LP: Dm-AMP1 C-terminal propeptide domain and subtilisin-like protease recognition site IGKR

MP Dm-AMP1: mature protein domain of Dm-AMP1 cDNA SP Dm-AMP1: signal peptide domain of Dm-AMP1 cDNA

fMV: tobacco mosaic virus 5' leader sequence

Penh35S: promotor of 35S RNA of cauliflower mosaic virus with duplicated enhancer region

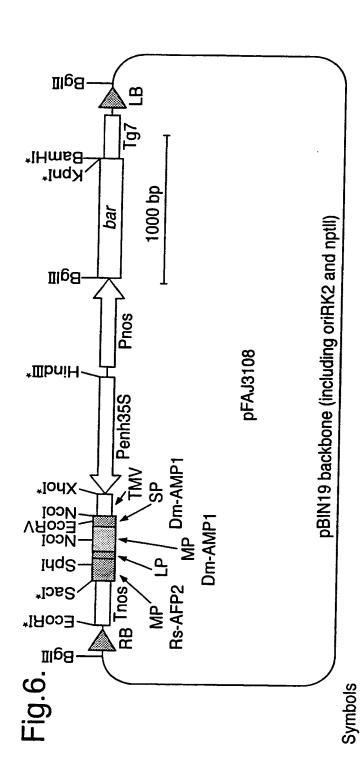
Pnos: promotor of T-DNA nopaline synthase gene

bar: basta resistance encoding gene

[g7: terminator of T-DNA gene 7

B: left border of T-DNA

DOYBUCYS . OSIFOI



RB: right border of T-DNA

Tnos: terminator of T-DNA nopaline synthase gene

MP Rs-AFP2: mature protein domain of Rs-AFP2

LP: first 16 AA of Ac-AMP2 C-terminal propeptide domain and subtilisin-like protease recognition site IGKR MP Dm-AMP1: mature protein domain of Dm-AMP1 cDNA

SP Dm-AMP1: signal peptide domain of Dm-AMP1 cDNA

fMV: tobacco mosaic virus 5' leader sequence

Penh35S: promotor of 35S RNA of cauliflower mosaic virus with duplicated enhancer region

Pnos: promotor of T-DNA nopaline synthase gene

bar: basta resistance encoding gene Tg7: terminator of T-DNA gene 7

-B: left border of T-DNA

RB: right border of T-DNA

Inos: terminator of T-DNA nopaline synthase gene

MP Dm-AMP1: mature protein domain of Dm-AMP1

SP Dm-AMP1: signal peptide domain of Dm-AMP1 cDNA

Penh35S: promotor of 35S RNA of cauliflower mosaic virus with duplicated enhancer region TMV: tobacco mosaic virus 5' leader sequence

Pnos: promotor of T-DNA nopaline synthase gene

bar: basta resistance encoding gene Tg7: terminator of T-DNA gene 7

.B: left border of T-DNA

*: unique restriction site

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Fig.8.

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AAGAATCAGTGCATTAGACTTGAGAAAGCACGACATGGATCTTGCAACTATGTCTTCCCA N ပ ß ტ Ξ ď × 回 ᆈ 2

GCTCACAAGTGTATCTGCTACTTTCCTTGTTAATAGGAGCTC
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Fig.9. pFAJ3106

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TTCGTGCTCGCCATCTCAGATATCGCATCCGTTAGTGGAGAACTATGCGAGAAAGCTAGC 臼 Ö ß > വ Ø Н Ω ß Н Ø П

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GGAAAGAGGCAGAAGTTGTGCCAAAGGCCCAAGTGGGACATGGTCAGGAGTCTGTGGAAAC Ö ß 3 H Ö ß

AATAACGCATGCAAGAATCAGTGCATTAGACTTGAGAAAGCACGACATGGATCTTGCAAC വ හ 田 2 Æ 노 臼 괴 Q X ບ A

ON CI ID NO SEQ SEQ TATGTCTTCCCAGCTCACAAGTGTATCTGCTACTTTCCTTGTTAATAGGAGCTC

Fig. 10. Tregagnarymy

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TICGTGCTCGCCATCTCAGATATCGCATCCGTTAGTGGAGAACTATGCGAGAAAGCTAGC 团 G Ŋ > Ø Ω ഗ Н ď V L

AAGACGTGGTCGGGCAACTGTGGCAACACGGGACATTGTGACAACCAATGTAAATCATGG വ Z Ω 二 Q Z හ Ö Z ტ വ

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TTCAATTGTAAAAAGCCGAAAAGCTTGCTCAAGACAAACTTAAAGCCGAACAACTCGCT × 田 Ø X X Ö

CAAGACAAACTTAATGCCCCAAAAGCTTGACCGTGATGCCAAGAAAGTGGTTCCAAACGTT × × Ø Ω ద Ω ц × Ø Æ

GAACATCCGATCGGAAAGAGGCAGAAGTTGTGCCAAAGGCCAAGTGGGACATGGTCAGGA Ø ပ ᆈ × ď ĸ × G

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GGATCTTGCAACTATGTCTTCCCAGCTCACAAGTGTATCTGCTACTTTCCTTGTTAATAG 二 လ ဗ

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SEQ ID NO 15 SEQ ID NO 16

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Fig. 11. pFAJ3108

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GAGGGTGCGGCCCATGGAGCGTGTCATGTGCGTAACGGGAAACACACATGTGTTTCTGTTAC 二 × Ö Z 叱 > CH Ą Ö I A Ø G 闰

TTCAATTGTGCCAGTACTACTGTGGATCACCAAGCTGATGTTGCTGCCACCAAAACTATC ø Ø Ω ď Ŏ 耳 Д > H Ŋ Ø O Z

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AATAACGCATGCAAGAATCAGTGCATTAGACTTGAGAAAGCACGACATGGATCTTGCAAC വ හ Ή 24 Ø K 团 ᄓ ద Hပ Q z 노

TATGTCTTCCCAGCTCACAAGTGTATCTGCTACTTTCCTTGTTAATAGGAGCTC 뙤 < | Д

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Fig. 12.

XhoI

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TTCGTGCTCGCCATCTCAGATATCGCATCCGTTAGTGGAGAACTATGCGAGAAAGCTAGC ტ Ŋ > വ ø Н Д

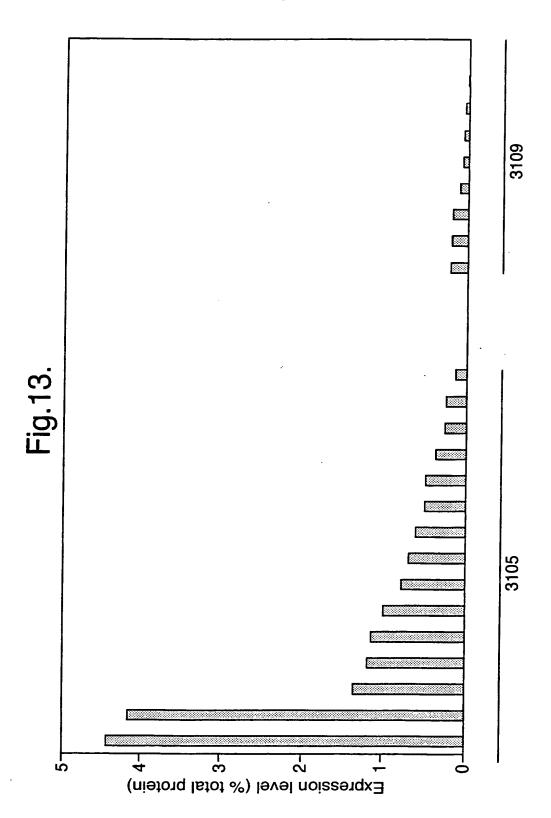
AAGACGTGGTCGGGCAACTGTGGCAACACGGGACATTGTGACAACCAATGTAAATCATGG D ပ H ບ H Z ധ ບ Z Ö ß

GAGGGTGCGCCCATGGAGCGTGTCATGTGCGTAATGGGAAACACATGTGTTTTCTGTTAC H Ç Z R H 뙤

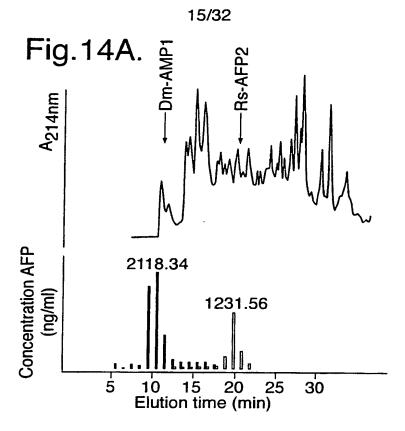
Saci TTCAATTGTTGAGCTC

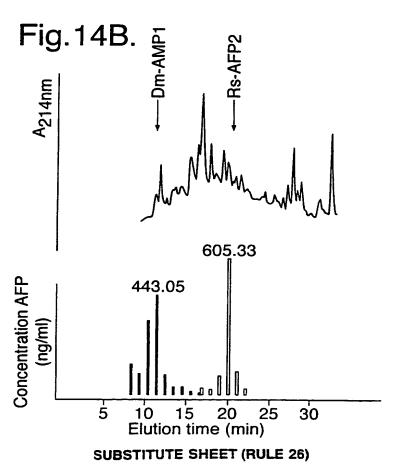
SEQ ID NO 20

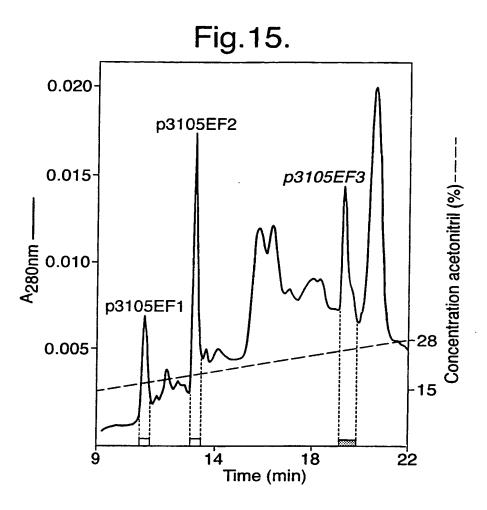
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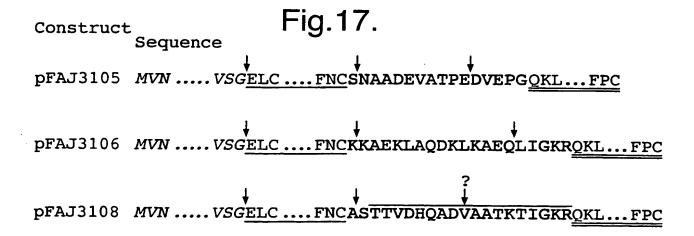


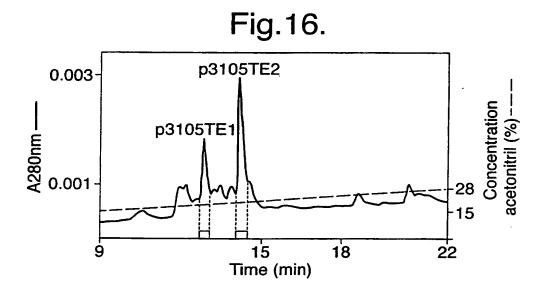
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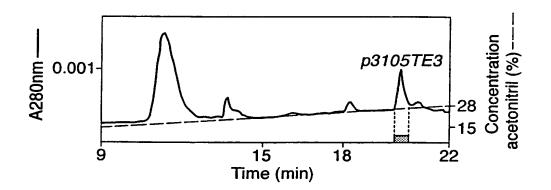


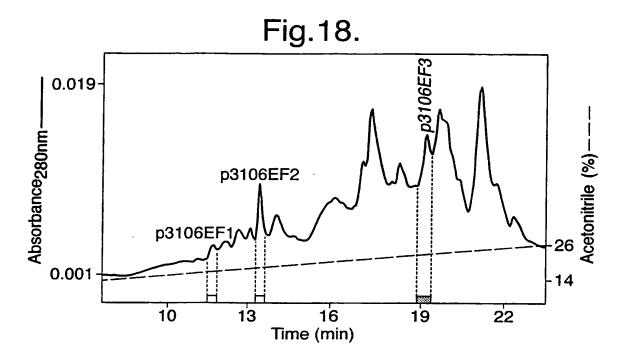


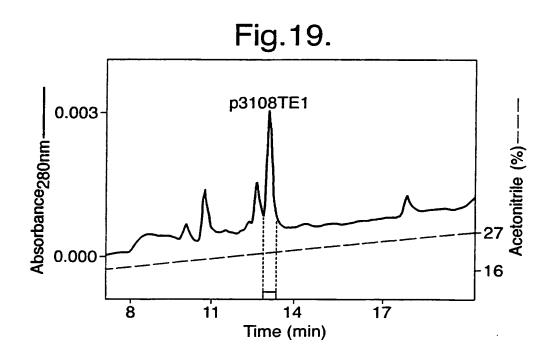




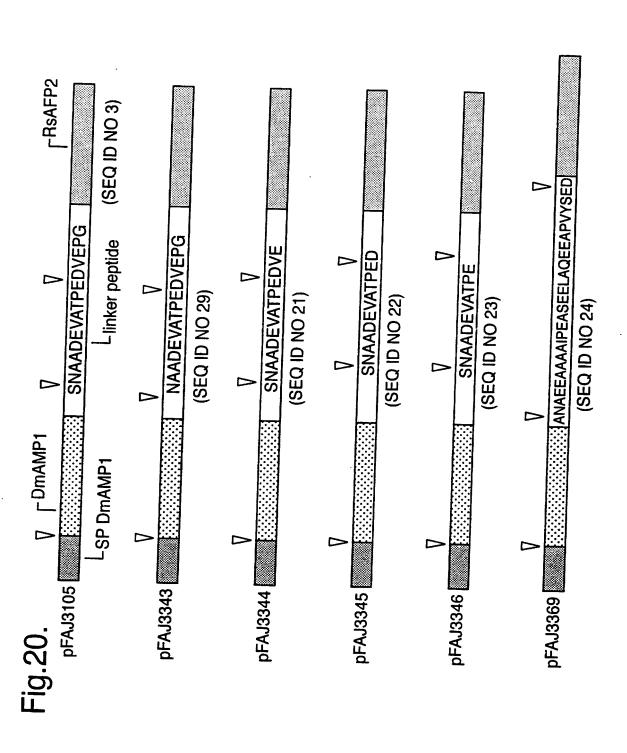




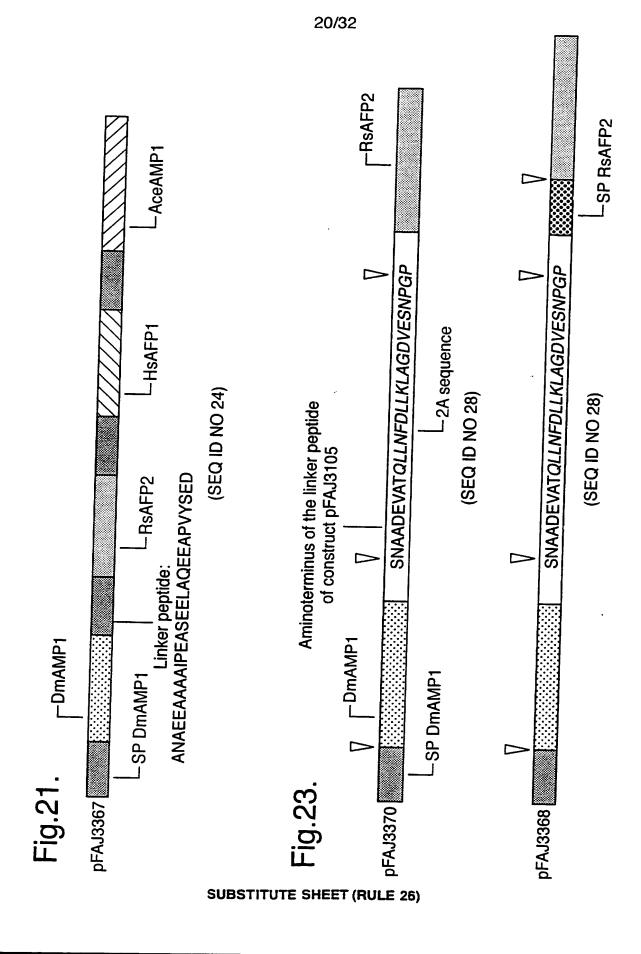


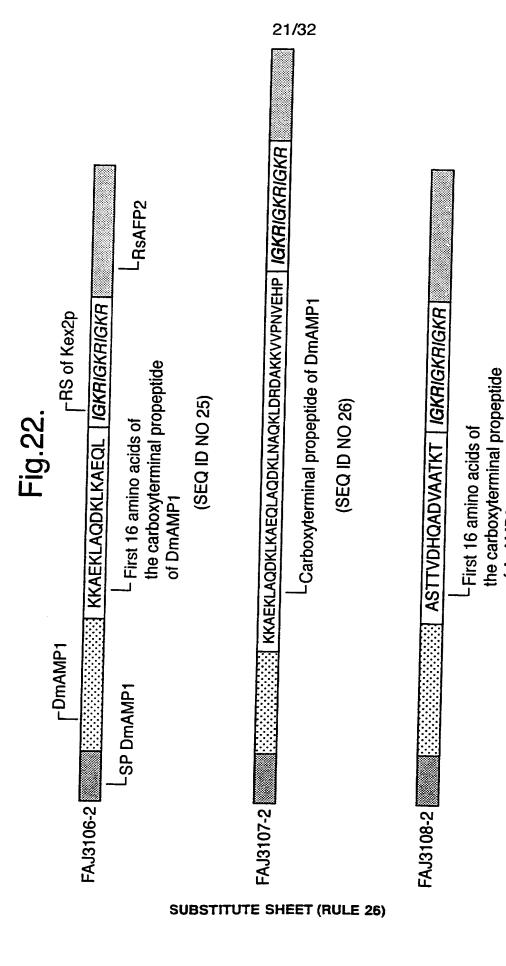


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D9763076.051401





(SEQ ID NO 27)

of AcAMP2

pFAJ3343

Fig.24.

NcoI M V N R S V A F S A F V L I L F V L A ATCTCAGATATCGCATCCGTTAGTGGAGAACTATGCGAGAAAGCTAGCAAGACGTGGTCG I S D I A S V S G <u>E L C E K A S K T W S</u> GGCAACTGTGGCAACACGGGACATTGTGACAACCAATGTAAATCATGGGAGGGTGCGGCT G N C G N T G H C D N O C K S W E G A A CACGGAGCGTGTCATGTGCGTAACGGGAAACACATGTGTTTCTGTTACTTCAATTGTAAC H G A C H V R N G K H M C F C Y F N C N GCGGCCGACGAGGTGCTACCCCAGAGGACGTGGAACCTGGTCAGAAGTTGTGCCAAAGG A A D E V A T P E D V E P G O K L C O R CCAAGTCGTACATGGTCAGGAGTCTGTGGAAACAATAACGCATGCAAGAATCAGTGCATT PSRTWSGVCGNNNACKNOCI AGACTTGAGAAAGCACGACATGGATCTTGCAACTATCGTTTCCCAGCTCACAAGTGTATC H G S C N Y R F P A H K C I SacI TGCTACTTTCCTTGTTAATAGGAGCTC (SEQ ID NO 30) <u>C Y F P C</u> (SEQ ID NO 31)

Y F P C

23/32

Fig.25. pFAJ3344 NCOI ${\tt CCATGGTGAATCGGTTGCGTTCTCCGCGTTCGTTCTGATCCTTTTCGTGCTCGCC}$ M V N R S V A F S A F V L I L F V L A ATCTCAGATATCGCATCCGTTAGTGGAGAACTATGCGAGAAAGCTAGCAAGACGTGGTCG I S D I A S V S G <u>E L C E K A S K T W S</u> GGCAACTGTGGCAACACGGGACATTGTGACAACCAATGTAAATCATGGGAGGGTGCGGCT G N C G N T G H C D N O C K S W E G A A ${\tt CACGGAGCGTGTCATGTGCGTAACGGGAAACACATGTGTTTCTGTTACTTCAATTGTTCC}$ HGACHVRNGKHMCFCYFNCS AACGCGGCCGACGAGGTGGCTACCCCAGAGGACGTGGAACAGAAGTTGTGCCAAAGGCCA N A A D E V A T P E D V E O K L C O R P AGTCGTACATGGTCAGGAGTCTGTGGAAACAATAACGCATGCAAGAATCAGTGCATTAGA <u>S R T W S G V C G N N N A C K N O C I R</u> CTTGAGAAAGCACGACATGGATCTTGCAACTATCGTTTCCCAGCTCACAAGTGTATCTGC <u>L E K A R H G S C N Y R F P A H K C I C</u> TACTTTCCTTGTTAATAGGAGCTC (SEQ ID NO 32)

(SEQ ID NO 33)

pFAJ3345 Fig.26. NcoI MVNRSVAFSAFVLILFVLA ATCTCAGATATCGCATCCGTTAGTGGAGAACTATGCGAGAAAGCTAGCAAGACGTGGTCG I S D I A S V S G <u>E L C E K A S K T W S</u> G N C G N T G H C D N O C K S W E G A A ${\tt CACGGAGCGTGTCATGTGCGTAACGGGAAACACATGTGTTTCTGTTACTTCAATTGTTCC}$ HGACHVRNGKHMCFCYFNC AACGCGGCCGACGAGGTGGCTACCCCAGAGGACCAGAAGTTGTGCCAAAGGCCAAGTCGT N A A D E V A T P E D O K L C O R P S ACATGGTCAGGAGTCTGTGGAAACAATAACGCATGCAAGAATCAGTGCATTAGACTTGAG <u>WSGVCGNNNACKNOCIRLE</u> ${\tt AAAGCACGACATGGATCTTGCAACTATCGTTTCCCAGCTCACAAGTGTATCTGCTACTTT}$ N Y R F P A H K C I C Y F K A R H G S SacI CCTTGTTAATAGGAGCTC (SEQ ID NO 34) <u>P</u> C (SEQ ID NO 35)

Fig.27. pFAJ3346 Ncol ${\tt CCATGGTGAATCGGTTGCGTTCTCCGCGTTCTGATCCTTTTCGTGCTCGCC}$ MVNRSVAFSAFVLILFVLA ATCTCAGATATCGCATCCGTTAGTGGAGAACTATGCGAGAAAGCTAGCAAGACGTGGTCG I S D I A S V S G <u>E L C E K A S K T W S</u> GGCAACTGTGGCAACACGGGACATTGTGACAACCAATGTAAATCATGGGAGGGTGCGGCT G N C G N T G H C D N O C K S W E G A A CACGGAGCGTGTCATGTGCGTAACGGGAAACACATGTGTTTCTGTTACTTCAATTGTTCC HGACHVRNGKHMCFCYFNCS AACGCGGCCGACGAGGTGGCTACCCCAGAGCAGAGTTGTGCCAAAGGCCAAGTCGTACA NAADEVATPEOKLCORPSRT TGGTCAGGAGTCTGTGGAAACAATAACGCATGCAAGAATCAGTGCATTAGACTTGAGAAA W S G V C G N N N A C K N O C I <u>R L E K</u> GCACGACATGGATCTTGCAACTATCGTTTCCCAGCTCACAAGTGTATCTGCTACTTTCCT <u>RHGSCNYRFPAHKCICYFP</u> SacI TGTTAATAGGAGCTC (SEQ ID NO 36) (SEQ ID NO 37)

pFAJ3369

Fig.28.

NcoI CCATGGTGAATCGGTTGCGTTCTCCGCGTTCGTTCTGATCCTTTTCGTGCTCGCC MVNRSVAFSAFVLILFVLA ATCTCAGATATCGCATCCGTTAGTGGAGAACTATGCGAGAAAGCTAGCAAGACGTGGTCG I S D I A S V S G <u>E L C E K A S K T W S</u> GGCAACTGTGGCAACACGGGACATTGTGACAACCAATGTAAATCATGGGAGGGTGCGGCT G N C G N T G H C D N O C K S W E G A A CACGGAGCGTGTCATGTGCGTAACGGGAAACACATGTGTTTCTGTTACTTCAATTGTGCT H G A C H V R N G K H M C F C Y F N C A AACGCTGAGGAAGCTGCTGCTGCTATTCCTGAAGCTTCTGAAGAACTTGCTCAAGAAGAA NAEEAAAAIPEASEELAQEE GCTCCTGTGTACAGTGAAGATCAGAAGTTGTGCCAAAGGCCAAGTCGTACATGGTCAGGA APVY SEDOKLCORPSRTWSG GTCTGTGGAAACAATAACGCATGCAAGAATCAGTGCATTAGACTTGAGAAAGCACGACAT V C G N N N A C K N O C I R L E <u>KARH</u> GGATCTTGCAACTATCGTTTCCCAGCTCACAAGTGTATCTGCTACTTTCCTTGTTAATAG Y R F P A H K C I C Y F P C SacI **GAGCTC** (SEQ ID NO 38) (SEO ID NO 39)

Fig.29. pFAJ3367 NCOI CCATGGTGAATCGGTCGGTTGCGTTCTCCGCGTTCGTTCTGATCCTTTTCGTGCTCGCC M V N R S V A F S A F V L I L F V L A ATCTCAGATATCGCATCCGTTAGTGGAGAACTATGCGAGAAAGCTAGCAAGACGTGGTCG I S D I A S V S G <u>E L C E K A S K T W S</u> GGCAACTGTGGCAACACGGGACATTGTGACAACCAATGTAAATCATGGGAGGGTGCGGCT G N C G N T G H C D N O C K S W E G A A CACGGAGCGTGTCATGTGCGTAACGGGAAACACATGTGTTTCTGTTACTTCAACTGCGCT H G A C H V R N G K H M C F C Y F N C A AACGCTGAGGAAGCTGCTGCTATTCCTGAAGCTTCTGAAGAACTTGCTCAAGAAGAA N A E E A A A A I P E A S E E L A Q E E GCTCCTGTGTACAGTGAAGATCAGAAGTTGTGCCAAAGGCCAAGTCGTACATGGTCAGGA APVYSEDOKLCORPSRTWSG GTCTGTGGAAACAATAACGCATGCAAGAATCAGTGCATTAGACTTGAGAAAGCACGACAT V C G N N N A C K N O C I R L E K A R H GGATCTTGCAACTATCGTTTCCCAGCTCACAAGTGTATCTGCTACTTCCCTTGTGCGAAT G S C N Y R F P A H K C I C Y F P C A N GCTGAAGAAGCTGCTGCTATTCCTGAAGCTTCTGAAGAACTTGCTCAAGAAGAAGCA A E E A A A A I P E A S E E L A Q E E A CCGGTTTACTCTGAAGATGACGGAGTGAAGCTCTGCGACGTGCCATCCGGAACCTGGTCC P V Y S E D D G V K L C D V P S G T W S GGACACTGCGGTTCCTCCAGCAAGTGCAGCCAACAATGCAAGGACAGGGAGCACTTCGCT GHCGSSKCSQQCKDREHFA TACGGAGGAGCTTGCCACTACCAATTCCCATCCGTGAAGTGCTTCTGCAAGAGGCAATGC YGGACHYQFPSVKCFCKRQC GCTAACGCTGAGGAAGCTGCTGCTGCTATTCCTGAAGCTTCTGAAGAACTTGCTCAAGAA ANAEEAAAAIPEASEELAQ GAAGCTCCTGTGTACAGTGAAGATCAGAACATATGCCCAAGGGTTAATCGAATTGTGACA A P V Y S E D Q N I C P R V N R I V T CCCTGTGTGGCCTACGGACTCGGAAGGCCACCAATCGCCCCATGCTGCAGAGCCCTGAAC P_C_V_A_Y_G_L_G_R_A_P_I_A_P_C_C_R_A_L_N GATCTACGGTTTGTGAATACTAGAAACCTACGACGTGCTGCATGCCGCTGCCTCGTAGGG D_L_R_F_V_N_T_R_N_L_R_R_A_A_C_R_C_L_V_G GTAGTGAACCGGAACCCCGGTCTGAGACGAAACCCTAGATTTCAGAACATTCCTCGTGAT V V N R N P G L R R N P R F Q N I P R D TGTCGCAACACCTTTGTTCGTCCCTTCTGGTGGCGTCCAAGAATTCAATGCGGCAGGATT **AACTAATAGAGCTC** (SEQ ID NO 40) <u>N</u> - -(SEQ ID NO 41)

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pFAJ3106-2

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m NCOI}}$

Fig.30.

M V N R S V A F S A F V L I L F V L A ATCTCAGATATCGCATCCGTTAGTGGAGAACTATGCGAGAAAGCTAGCAAGACGTGGTCG I S D I A S V S G <u>E L C E K A S K T W S</u> GGCAACTGTGGCAACACGGGACATTGTGACAACCAATGTAAATCATGGGAGGGTGCGGCT G N C G N T G H C D N O C K S W E G A A CACGGAGCGTGTCATGTGCGTAACGGGAAACACATGTGTTTCTGTTACTTCAATTGTAAA HGACHVRNGKHMCFCYFNCK AAAGCCGAAAAGCTTGCTCAAGACAAACTTAAAGCCGAACAACTCATCGGAAAGAGGGATC K A E K L A Q D K L K A E Q L I G K R I GGAAAGAGGATCGGAAAGAGGCAGAAGTTGTGCCAAAGGCCAAGTCGTACATGGTCAGGA G K R I G K R O K L C O R P S R GTCTGTGGAAACAATAACGCATGCAAGAATCAGTGCATTAGACTTGAGAAAGCACGACAT N N N A C K N O C I R L E K A R H GGATCTTGCAACTATCGTTTCCCAGCTCACAAGTGTATCTGCTACTTTCCTTGTTAATAG N Y R F P A H K C I C Y F P C SacI GAGCTC (SEQ ID NO 42) (SEO ID NO 43)

Fig.31.

pFAJ3107-2

NcoI CCATGGTGAATCGGTCGGTTGCGTTCTCCGCGTTCGTTCTGATCCTTTTCGTGCTCGCC MVNRSVAFSAFVLILFVLA ATCTCAGATATCGCATCCGTTAGTGGAGAACTATGCGAGAAAGCTAGCAAGACGTGGTCG I S D I A S V S G <u>E L C E K A S K T W S</u> GGCAACTGTGGCAACACGGGACATTGTGACAACCAATGTAAATCATGGGAGGGTGCGGCT G N C G N T G H C D N O C K S W E G A A CACGGAGCGTGTCATGTGCGTAACGGGAAACACATGTGTTTCTGTTACTTCAATTGTAAA HGACHVRNGKHMCFCYFNCK AAAGCCGAAAAGCTTGCTCAAGACAAACTTAAAGCCGAACAACTCGCTCAAGACAAACTT K A E K L A Q D K L K A E Q L A Q D K L AATGCCCAAAAGCTTGACCGTGATGCCAAGAAAGTGGTTCCAAACGTTGAACATCCGATC AQKLDRDAKKVVPNVEHPI GGAAAGAGGATCGGAAAGAGGCCAAAGTCGT GKRIGKRIGKR<u>OKLCORPS</u>R ACATGGTCAGGAGTCTGTGGAAACAATAACGCATGCAAGAATCAGTGCATTAGACTTGAG T W S G V C G N N N A CKNOC AAAGCACGACATGGATCTTGCAACTATCGTTTCCCAGCTCACAAGTGTATCTGCTACTT <u>CNYRFPAHKCICYF</u> _SacI_ TCCTTGTTAATAGGAGCTC (SEQ ID NO 44) <u>P</u> C -(SEQ ID NO 45)

pFAJ3108-2

Fig.32.

NcoI CCATGGTGAATCGGTTGCGTTCTCCGCGTTCGTGCTCTCTGATCCTTTTCGTGCTCGCC M V N R S V A F S A F V L I L F V L ATCTCAGATATCGCATCCGTTAGTGGAGAACTATGCGAGAAAGCTAGCAAGACGTGGTCG I S D I A S V S G <u>E L C E K A S K T W S</u> GGCAACTGTGGCAACACGGGACATTGTGACAACCAATGTAAATCATGGGAGGGTGCGGCT G N C G N T G H C D N O C K S W E G A A CACGGAGCGTGTCATGTGCGTAACGGGAAACACATGTGTTTCTGTTACTTCAATTGTGCC HGACHVRNGKHMCFCYFNCA AGTACTACTGTGGATCACCAAGCTGATGTTGCTGCCACCAAAACTATCGGAAAGAGGGATC S T T V D H Q A D V A A T K T I G K R I GGAAAGAGGATCGGAAAGAGGCAGAAGTTGTGCCAAAGGCCAAGTCGTACATGGTCAGGA GKRIGKR OKLC ORPSRTWSG GTCTGTGGAAACAATAACGCATGCAAGAATCAGTGCATTAGACTTGAGAAAGCACGACAT <u>V C G N N N A C K N O C I R L E K A R H</u> GGATCTTGCAACTATCTGTTCCCAGCTCACAAGTGTATCTGCTACTTTCCTTGTTAATAG RFPAHKCICYFPC SacI **GAGCTC** (SEQ ID NO 46) (SEQ ID NO 47)

pFAJ3370

Fig.33.

Ncol CCATGGTGAATCGGTCGGTTGCGTTCTCCGCGTTCGTTCTGATCCTTTTCGTGCTCGCC M V N R S V A F S A F V L I L F V L A ATCTCAGATATCGCATCCGTTAGTGGAGAACTATGCGAGAAAGCTAGCAAGACGTGGTCG I S D I A S V S G <u>E L C E K A S K T W S</u> GGCAACTGTGGCAACACGGGACATTGTGACAACCAATGTAAATCATGGGAGGGTGCGGCT G N C G N T G H C D N O C K S W E G A A HGACHVRNGKHMCFCYFNCS AACGCGGCCGACGAGGTGGCTACCCAGCTGTTGAATTTTGACCTTCTTAAGCTTGCGGGA NAADEVATQLLNFDLLKLAG GACGTCGAGTCCAACCCTGGGCCCCAGAAGTTGTGCCAAAGGCCAAGTCGTACATGGTCA D V E S N P G P O K L C O R P S R GGAGTCTGTGGAAACAATAACGCATGCAAGAATCAGTGCATTAGACTTGAGAAAGCACGA <u>G V C G N N N A C K N O C I R L E K A R</u> CATGGATCTTGCAACTATCGTTTCCCAGCTCACAAGTGTATCTGCTACTTTCCTTGTTAA Y R F P A H K C I C Y F P C SacI TAGGAGCTC (SEQ ID NO 48) (SEQ ID NO 49)

pFAJ3368

Fig.34.

NcoI CCATGGTGAATCGGTTGCGTTCTCCGCGTTCGTTCTGATCCTTTTCGTGCTCGCC MVNRSVAFSAFVL ILFVLA ATCTCAGATATCGCATCCGTTAGTGGAGAACTATGCGAGAAAGCTAGCAAGACGTGGTCG I S D I A S V S G <u>E L C E K A S K T W S</u> GGCAACTGTGGCAACACGGGACATTGTGACAACCAATGTAAATCATGGGAGGGTGCGGCT G N C G N T G H C D N O C K S W E G A A CACGGAGCGTGTCATGTGCGTAACGGGAAACACATGTGTTTCTGTTACTTCAATTGTTCC H G A C H V R N G K H M C F C Y F N C AACGCGGCCGACGAGGTGGCTACCCAGCTGTTGAATTTTTGACCTTCTTAAGCTTGCGGGA NAADEVATQLLNF DLLKLAG GACGTCGAGTCCAACCCTGGGCCCATGGCTAAGTTTGCGTCCATCATCGCACTTCTTTTT D V E S N P G P M A K F A S I IALLF GCTGCTCTTGTTCTTTTTGCTGCTTTCGAAGCACCAACAATGGTGGAAGCACAGAAGTTG AALVLFAAFEAETMVEA<u>OK</u> TGCCAAAGGCCAAGTCGTACATGGTCAGGAGTCTGTGGAAACAATAACGCATGCAAGAAT C O R P S R T W S G V C G N N N A C K N CAGTGCATTAGACTTGAGAAAGCACGACATGGATCTTGCAACTATCGTTTCCCAGCTCAC AAGTGTATCTGCTACTTTCCTTGTTAATAGGAGCTC (SEQ ID NO 50) K C I C Y F P C (SEQ ID NO 51)